

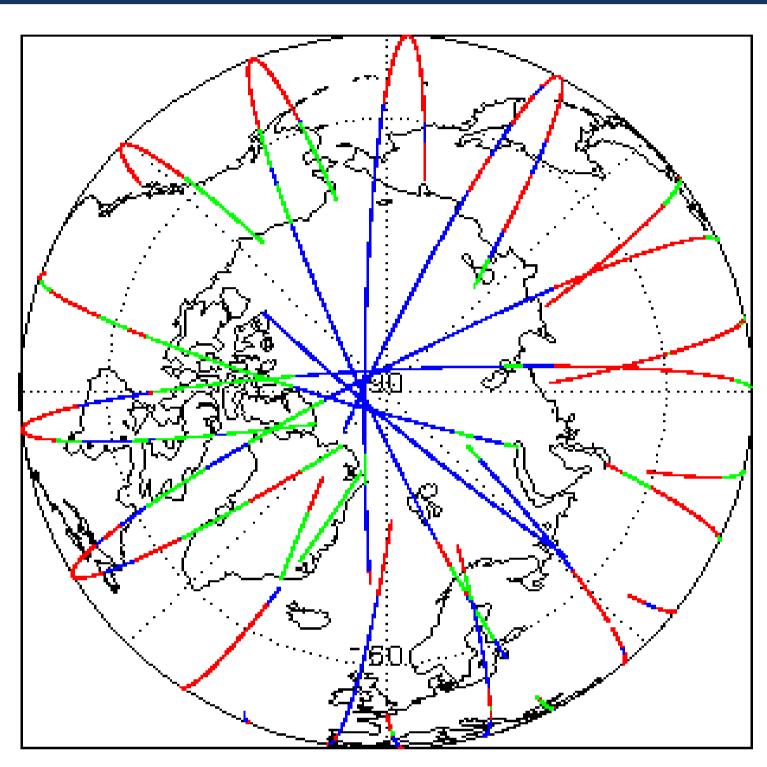
1. Overview

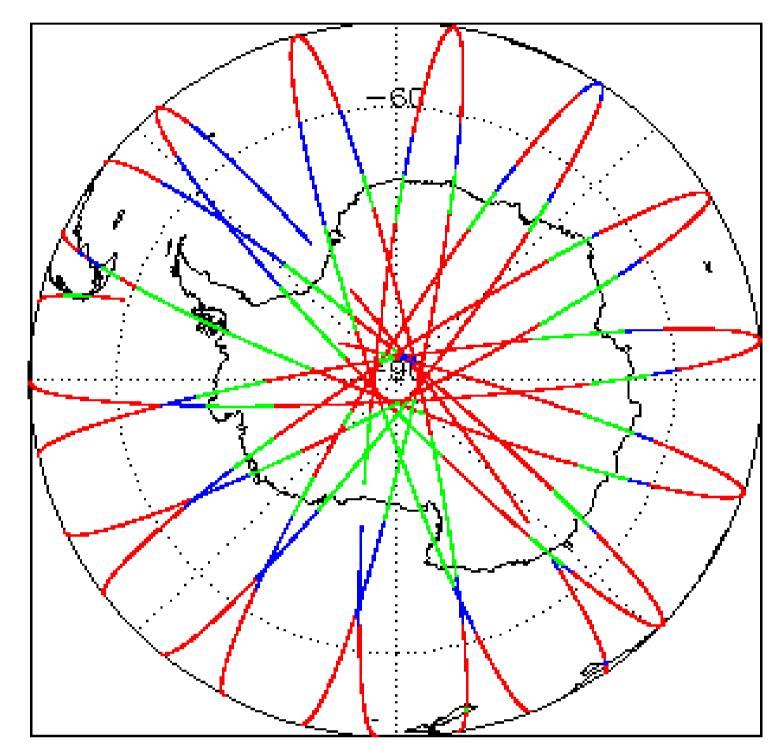
Report Production:	12-May-2021	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

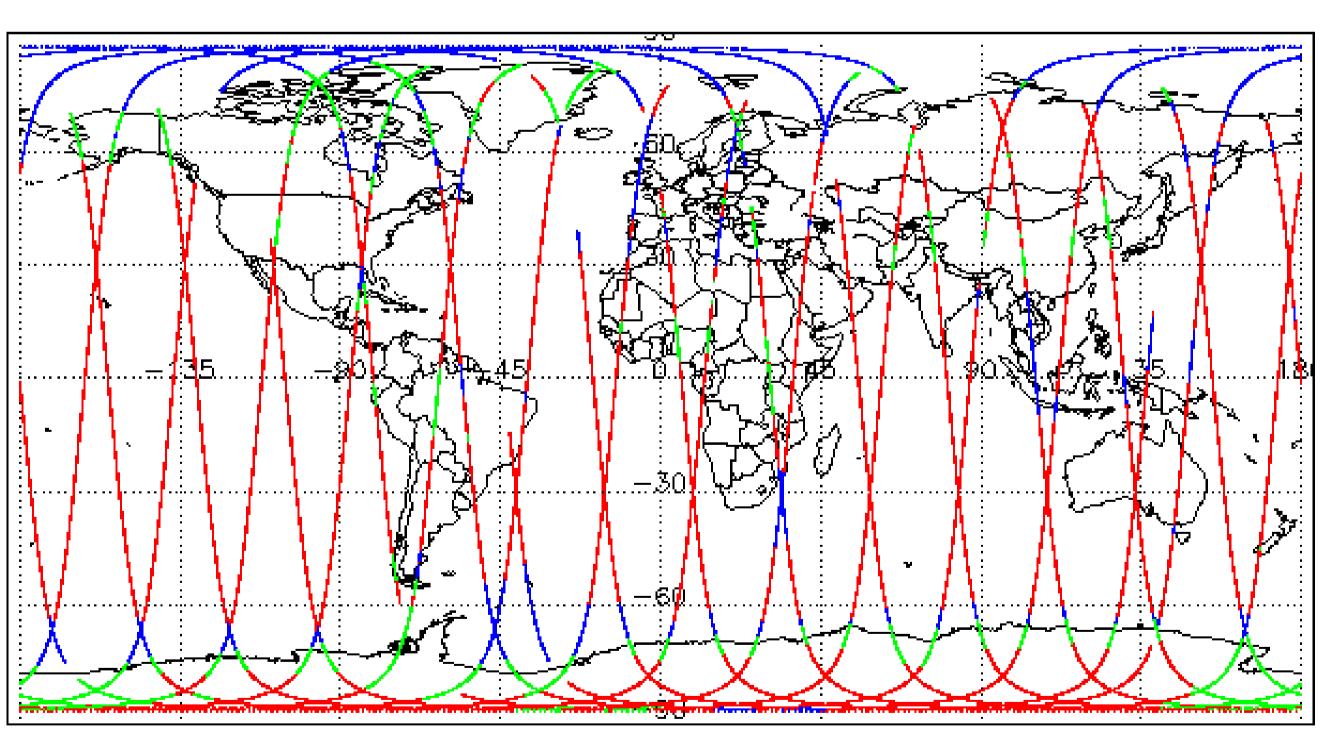
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5
Measurement Quality Flag Check	See Section 5.6
Ocean Retracking Quality Check	See Section 5.7
QCC Error/ Warning Check	See Section 7.1 and 7.2

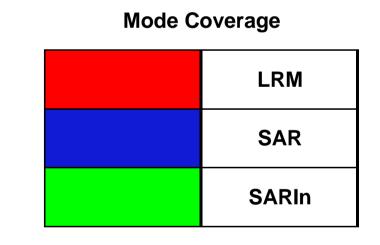
Mission / Instr	Mission / Instrument News		
10-May-2021	None		
11-May-2021	None		
12-May-2021	Nothing planned		

2. Global Coverage









3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use:	SIRAL - A
Star Tracker(s) in use:	Star Tracker 1

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B IOPR and IOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Dynamic Atmospheric Correction: The DAC is missing in all products because the auxiliary files required are not available in time for processing. This known and expected behaviour.

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.

0

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

> Attitude Correction Missing: This flag is currently set in error for NOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20210511T205730_20210511T205747_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag for each measurement record. The bit value of this flag indicates any problems when set.

> Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors: 2

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20210511T064348_20210511T064844_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210511T204949_20210511T205542_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210511T231646_20210511T232354_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210511T011532_20210511T011747_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210511T021907_20210511T022053_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210511T061928_20210511T061959_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210511T111654_20210511T111957_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210511T125843_20210511T130114_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210511T143511_20210511T143731_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210511T161451_20210511T161928_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210511T192505_20210511T192553_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210511T193823_20210511T194004_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210511T011012_20210511T011137_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210511T012150_20210511T012432_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210511T034013_20210511T034137_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210511T130336_20210511T130539_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210511T143732_20210511T143801_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210511T174450_20210511T175535_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210511T192740_20210511T193619_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210511T201339_20210511T201653_C001	Loss of Echo	The tracking echo is missing for one or more records

5. NOP Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors: 0

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors: 0

5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Wind Model File Usage: This file is currently not included in all L2 products.

0

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

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- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

Test Failed Description **Product** Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPM 2 20210511T025154 20210511T025209 C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPM_2_20210511T044416_20210511T044454_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPN_2_20210511T002248_20210511T002427_C001 Mean Dynamic Topography (1) more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_NOPN_2_20210511T003144_20210511T003352_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPN_2_20210511T011532_20210511T011748_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPN 2 20210511T025210 20210511T025615 C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20210511T035131_20210511T035332_C001 more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPN_2_20210511T084013_20210511T084138_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean CS_OFFL_SIR_NOPN_2_20210511T084649_20210511T084842_C001 Topography (solution 1) and the tidal corrections for one or more records Tide (GOT), Total Geocentric Ocean There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20210511T102036_20210511T102335_C001 more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR NOPN 2 20210511T102553 20210511T103111 C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean CS_OFFL_SIR_NOPN_2_20210511T111654_20210511T111957_C001 Topography (solution 1) and the tidal corrections for one or more records Tide (GOT), Total Geocentric Ocean Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPN_2_20210511T120030_20210511T120304_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPN_2_20210511T125547_20210511T125701_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPN_2_20210511T125843_20210511T130114_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPN_2_20210511T133532_20210511T134129_C001 Mean Dynamic Topography (1) more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_NOPN_2_20210511T143511_20210511T143731_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPN_2_20210511T151747_20210511T151938_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPN_2_20210511T161451_20210511T161928_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPN_2_20210511T165727_20210511T165905_C001 Mean Dynamic Topography (1) more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPN_2_20210511T183718_20210511T184104_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR NOPN 2 20210511T201653 20210511T202009 C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPN_2_20210511T202522_20210511T202644_C001 Mean Dynamic Topography (1) more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR NOPN 2 20210511T210750 20210511T210838 C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPN 2 20210511T220432 20210511T220538 C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPR_2_20210511T011748_20210511T012150_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_20210511T012150_20210511T012432_C001 more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPR_2_20210511T024855_20210511T025153_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_NOPR_2_20210511T025615_20210511T030136_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPR_2_20210511T161035_20210511T161450_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPR 2 20210511T174450 20210511T175535 C001 Topography (1) Topography height (solution 1) for one or more records

CS_OFFL_SIR_NOPR_2_20210511T192740_20210511T193619_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20210511T210838_20210511T211911_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20210511T224807_20210511T225532_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210511T205730_20210511T205747_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

CryoSat L2 data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

- > Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags: These flags are currently set for some records over ocean.
- > OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

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4	$\overline{}$	$\overline{}$
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Number of products with errors: 88		
Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210511T000407_20210511T000546_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T000549_20210511T002223_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T002427_20210511T002936_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T003925_20210511T005001_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T005534_20210511T010823_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T010851_20210511T011012_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T013507_20210511T014523_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T014703_20210511T020117_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T020348_20210511T020848_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T022053_20210511T023154_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T023326_20210511T023913_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T024157_20210511T024854_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T031027_20210511T031037_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T031150_20210511T031233_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T031803_20210511T034012_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T034426_20210511T034806_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T034827_20210511T035130_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T035447_20210511T042040_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

Compage Comp	CS_OFFL_SIR_NOPM_2_20210511T042209_20210511T042311_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Column C	CS_OFFL_SIR_NOPM_2_20210511T045431_20210511T052015_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
BEST Company Description	CS_OFFL_SIR_NOPM_2_20210511T052209_20210511T052721_C001		
20_0Pt_S 2_ND-P_2_2020011050320_2020011105040_000 20_0Pt_S 2_ND-P_2_202001105040_000000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20210511T052728_20210511T053055_C001		, ,
CS. CPFL SR ACPIW 2 2010511100549. 2010511100549. COID All reset Particles (Cally) CCCC. CS. CPFL SR ACPIW 2 2010511100549. COID SIGNATURE C	CS_OFFL_SIR_NOPM_2_20210511T053428_20210511T060757_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB, OFFE, SIR, NOPW, 2, 200125111706140, 220105117160304 CO27 CB, OFFE, SIR, NOPW, 2, 20012511706140, 220105117260304 CO27 CB, OFFE, SIR, NOPW, 2, 200125117003070 CD27 CB, OFFE, SIR, NOPW, 2, 200125117100205, 2021017100400, 2021 CB, OFFE, SIR, NOPW, 2, 200125117003070 CD27 CB, OFFE, SIR, NOPW, 2, 200125117100205, 2021017100000, 2021 CB, OFFE, SIR, NOPW, 2, 200125117100205, 2021017100000, 2021 CB, OFFE, SIR, NOPW, 2, 200125117100205, 20210171000000, 2021017100000, 2021	CS_OFFL_SIR_NOPM_2_20210511T063117_20210511T064149_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFTL_SIR_NOPM_2_20210511706501_00210611707765_C001 CS_OFTL_SIR_NOPM_2_2021051170702_0_00210611707765_C001 CS_OFTL_SIR_NOPM_2_2021051170702_0_00210611707765_C001 CS_OFTL_SIR_NOPM_2_2021051170702_0_00210611707765_C001 CS_OFTL_SIR_NOPM_2_2021051170702_0_00210611707765_C001 CS_OFTL_SIR_NOPM_2_20210511707160_002105117074705_C001 CS_OFTL_SIR_NOPM_2_20210511707160_00210511700743_C001 CS_OFTL_SIR_NOPM_2_20210511706160_00210511700743_C001 CS_OFTL_SIR_NOPM_2_20210511706160_00210511700743_C001 CS_OFTL_SIR_NOPM_2_20210511706160_00210511700743_C001 CS_OFTL_SIR_NOPM_2_20210511706160_00210511700640_C001 CS_OFTL_SIR_NOPM_2_20210511706160_0021051700640_C001 CS_OFTL_SIR_NOPM_2_20	CS_OFFL_SIR_NOPM_2_20210511T064348_20210511T064844_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Description of the common records. Count Affaired Range. SBHA, SWH and Backscaler Quality Flags with been Affaired Range. SBHA, SWH and Backscaler Quality Flags with the COOS Affaired Range and Description of London Affaired Range and Description of London Range and Description Description Range Range Range Range Range Range and Description Description Range Rang	CS_OFFL_SIR_NOPM_2_20210511T065401_20210511T065934_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and fash-occurrin Coulley, COOS Anthreef Range and Bookscaler County of the COOS Allered Range and Bookscaler County of the CO	CS_OFFL_SIR_NOPM_2_20210511T070210_20210511T070755_C001		
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or S. OFFL_SIR_NOPM_2_20210511T08305_20210511T1084648 C001 OCOS Affineter Range Quality, OCOS Buckcaster Quality Flags have been set for one or more seconds. OCOS Affineter Range Quality, OCOS Buckcaster Quality Flags have been set for one or more seconds. OCOS Affineter Range Quality, OCOS Buckcaster Quality Flags have been set for one or more seconds. OCOS Affineter Range, SSIA, SWH and Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range, SSIA, SWH and Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range, SSIA, SWH and Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range, SSIA, SWH and Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range, SSIA, SWH and Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range, SSIA, SWH and Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range, SSIA, SWH and Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range, SSIA, SWH and Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range, SSIA, SWH and Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range, SSIA, SWH and Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range set Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range SSIA, SWH and Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range SSIA, SWH and Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range, SSIA, SWH and Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range, SSIA, SWH and Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range, SSIA, SWH and Backscaster Quality Flags have been set for one or more seconds. OCOS Affineter Range, SSIA, SWH and Backscaster Quality Flags have	CS_OFFL_SIR_NOPM_2_20210511T080049_20210511T080143_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20210511T085311_20210511T091505_0001 CS_OFFL_SIR_NOPM_2_20210511T091505_20210511T092719 C001 CS_OFFL_SIR_NOPM_2_20210511T091505_20210511T092719 C001 CS_OFFL_SIR_NOPM_2_20210511T091505_20210511T092719 C001 CS_OFFL_SIR_NOPM_2_20210511T091505_20210511T092719 C001 CS_OFFL_SIR_NOPM_2_20210511T091505_20210511T092719 C001 CS_OFFL_SIR_NOPM_2_20210511T093954_20210511T094114_C001 CS_OFFL_SIR_NOPM_2_20210511T093954_20210511T094114_C001 CS_OFFL_SIR_NOPM_2_20210511T093954_20210511T094114_C001 CS_OFFL_SIR_NOPM_2_20210511T1093954_20210511T1094014_C001 CS_OFFL_SIR_NOPM_2_20210511T1093054_20210511T109500_C001 CS_OFFL_SIR_NOPM_2_20210511T1093054_20210511T109500_C001 CS_OFFL_SIR_NOPM_2_20210511T1093054_20210511T109500_C001 CS_OFFL_SIR_NOPM_2_20210511T1093054_20210511T109500_C001 CS_OFFL_SIR_NOPM_2_20210511T1093054_20210511T109500_C001 CS_OFFL_SIR_NOPM_2_20210511T109404_20210511T109500_C001 CS_OFFL_SIR_NOPM_2_20210511T109404_20210511T109500_C001 CS_OFFL_SIR_NOPM_2_20210511T109404_20210511T109500_C001 CS_OFFL_SIR_NOPM_2_20210511T109404_20010511T109500_C001 CS_OFFL_SIR_NOPM_2_20210511T109404_20010511T109500_C001 CS_OFFL_SIR_NOPM_2_20210511T109404_20010511T109500_C001 CS_OFFL_SIR_NOPM_2_20210511T109404_20010511T109500_C001 CS_OFFL_SIR_NOPM_2_20210511T109404_20010511T109500_C001 CS_OFFL_SIR_NOPM_2_20210511T109404_20010511T109500_C001 CS_OFFL_SIR_NOPM_2_20210511T109404_20010511T109500_C001 CS_OFFL_SIR_NOPM_2_20210511T109404_20010511T109500_C001 CS_OF	CS_OFFL_SIR_NOPM_2_20210511T081904_20210511T083848_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been and the OCGG Altimeter Range and Backscatter Quality Flags have been and the OCGG Altimeter Range and Backscatter Quality Flags have been and the OCGG Altimeter Range and Backscatter Quality Flags have been and the OCGG Altimeter Range and Backscatter Quality Flags have been and the OCGG Altimeter Range and Backscatter Quality Flags have been and the OCGG Altimeter Range and Backscatter Quality Flags have been and the OCGG Altimeter Range and Backscatter Quality Flags have been and the OCGG Altimeter Range and Backscatter Quality Flags have been and the OCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR NOPM 2 202106117102335 202106117101649 C001 CS OFFL SIR NOPM 2 202106117102335 20210611710255 C001 CS OFFL SIR NOPM 2 202106117102330 20210611710255 C001 CS OFFL SIR NOPM 2 202106117102331 20210611710250 C001 CS OFFL SIR NOPM 2 202106117102331 20210611710250 C001 CS OFFL SIR NOPM 2 202106117102301 202106117110250 C001 CS OFFL SIR NOPM 2 20210611710240 C001 CS OFFL SIR NOPM 2 20210611710	CS_OFFL_SIR_NOPM_2_20210511T084138_20210511T084649_C001		
and Backscater Quality COGO Altimeter Range and Backscater Quality Flags have been addressed. The Ocean Altimeter Range and Backscater Quality Flags have been addressed. The Ocean Altimeter Range and Backscater Quality Flags have been addressed. The Ocean Altimeter Range and Backscater Quality Flags have been addressed. The Ocean Altimeter Range and Backscater Quality Flags have been addressed. The Ocean Altimeter Range and Backscater Quality COGO Altimeter Range and Backscater Quality Range Range SNA, SWH and Backscater Quality Range Range Range and Backscater Quality Range Rang	CS_OFFL_SIR_NOPM_2_20210511T085311_20210511T091505_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been at the OCGG Altimeter Range and Backscatter Quality Flags have been at the Ocean Altimeter Range and Backscatter Quality Flags have been at the Ocean Altimeter Range and Backscatter Quality Flags have been at the Ocean Altimeter Range and Backscatter Quality Flags have been at the Ocean Altimeter Range and Backscatter Quality Flags have been at the Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR NOPM 2 20210511T102395 20210511T102552 CO01 CS OFFL SIR NOPM 2 20210511T103301 20210511T10030 CO01 CS OFFL SIR NOPM 2 20210511T103301 20210511T110030 CO01 CS OFFL SIR NOPM 2 20210511T10057 20210511T110056 CO01 CS OFFL SIR NOPM 2 20210511T11057 20210511T110056 CO01 CS OFFL SIR NOPM 2 20210511T11057 20210511T110057 CO01 CS OFFL SIR NOPM 2 20210511T112146 20210511T110057 CO01 CS OFFL SIR NOPM 2 20210511T112100 20210511T110057 CO01 CS OFFL SIR NOPM 2 20210511T112100 20210511T112004 CO01 CS OFFL SIR NOPM 2 20210511T12003 20210511T112004 CO01 CS OFFL SIR NOPM 2 20210511T12003 20210511T12004 CO01 CS OFFL SIR N	CS_OFFL_SIR_NOPM_2_20210511T091553_20210511T092719_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210511T102335_20210511T102552_C001 CCGG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210511T103301_20210511T110530_C001 CS_OFFL_SIR_NOPM_2_20210511T110817_20210511T110926_C001 CS_OFFL_SIR_NOPM_2_20210511T110817_20210511T110926_C001 CS_OFFL_SIR_NOPM_2_20210511T1110817_20210511T110926_C001 CS_OFFL_SIR_NOPM_2_20210511T1110817_20210511T110926_C001 CS_OFFL_SIR_NOPM_2_20210511T1110817_20210511T110926_C001 CS_OFFL_SIR_NOPM_2_20210511T11110826_C001 CS_OFFL_SIR_NOPM_2_20210511T11110826_C001 CS_OFFL_SIR_NOPM_2_20210511T11110826_C001 CS_OFFL_SIR_NOPM_2_20210511T11110826_C001 CS_OFFL_SIR_NOPM_2_20210511T11110826_C001 CS_OFFL_SIR_NOPM_2_20210511T11110826_C001 CS_OFFL_SIR_NOPM_2_20210511T111110826_C001 CS_OFFL_SIR_NOPM_2_20210511T11110826_C001 CS_OFFL_SIR_NOPM_2_20210511T11110826_C001 CS_OFFL_SIR_NOPM_2_20210511T11110826_C001 CS_OFFL_SIR_NOPM_2_20210511T1111111111111111111111111111111	CS_OFFL_SIR_NOPM_2_20210511T093854_20210511T094114_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
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and Backscatter Quality CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210511T110817_20210511T110926_C001 CS_OFFL_SIR_NOPM_2_20210511T112146_20210511T110926_C001 CS_OFFL_SIR_NOPM_2_20210511T112146_20210511T114037_C001 CS_OFFL_SIR_NOPM_2_20210511T112146_20210511T114037_C001 CS_OFFL_SIR_NOPM_2_20210511T112146_20210511T115410_C001 CS_OFFL_SIR_NOPM_2_20210511T112140_20210511T115410_C001 CS_OFFL_SIR_NOPM_2_20210511T112100_20210511T115410_C001 CS_OFFL_SIR_NOPM_2_20210511T112003_C0210511T1121004_C001 CS_OFFL_SIR_NOPM_2_20210511T112003_C0210511T122726_C001 CS_OFFL_SIR_NOPM_2_20210511T12003_C0210511T122726_C001 CS_OFFL_SIR_NOPM_2_20210511T121200_20210511T122726_C001 CS_OFFL_SIR_NOPM_2_20210511T121200_20210511T122726_C001 CS_OFFL_SIR_NOPM_2_20210511T121200_20210511T122726_C001 CS_OFFL_SIR_NOPM_2_20210511T12200_20210511T122726_C001 CS_OFFL_SIR_NOP	CS_OFFL_SIR_NOPM_2_20210511T102335_20210511T102552_C001		
Backscatter Quality CS_OFFL_SIR_NOPM_2_20210511T112146_20210511T114037_C001 Backscatter Quality CS_OFFL_SIR_NOPM_2_20210511T112146_20210511T114037_C001 CS_OFFL_SIR_NOPM_2_20210511T112146_20210511T114037_C001 CS_OFFL_SIR_NOPM_2_20210511T114108_20210511T115410_C001 CS_OFFL_SIR_NOPM_2_20210511T114108_20210511T115410_C001 CS_OFFL_SIR_NOPM_2_20210511T120636_20210511T121004_C001 CS_OFFL_SIR_NOPM_2_20210511T12002_20210511T122726_C001 CS_OFFL_SIR_NOPM_2_20210511T12200_20210511T122726_C001 CS_OFFL_SIR_NOPM_2_20210511T12200_20210511T123851_C001 CS_OFFL_SIR_NOPM_2_20210511T122929_20210511T123851_C001 Backscatter Quality Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210511T12200_20210511T122726_C001 CS_OFFL_SIR_NOPM_2_20210511T122929_20210511T123851_C001 CS_OFFL_SIR_NOPM_2_20210511T122929_20210511T123851_C001 CS_OFFL_SIR_NOPM_2_20210511T125701_20210511T123843_C001 CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20210511T103301_20210511T110530_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210511T112108_20210511T115410_C001 CS_OFFL_SIR_NOPM_2_20210511T1120636_20210511T1121004_C001 CS_OFFL_SIR_NOPM_2_20210511T120636_20210511T122726_C001 CS_OFFL_SIR_NOPM_2_20210511T12200_20210511T122726_C001 CS_OFFL_SIR_NOPM_2_20210511T12200_20210511T122726_C001 CS_OFFL_SIR_NOPM_2_20210511T12200_20210511T123851_C001 CS_OFFL_SIR_NOPM_2_20210511T122720_20210511T123851_C001 CS_OFFL_SIR_NOPM_2_20210511T122720_20210511T123831_C001 CS_OFFL_SIR_NOPM_2_20210511T125701_20210511T123843_C001 CS_OFFL_SIR_NOPM_2_20210511T125701_20210511T125843_C001 CS_OFFL_SIR_NOPM_2_20210511T125601_20210511T125843_C001 CS_OFFL_SIR_NOPM_2_20210511T125601_20210511T125843_C001 CS_OFFL_SIR_NOPM_2_20210511T125601_20210511T125843_C001 CS_OFFL_SIR_NOPM_2_20210511T125601_20210511T125843_C001 CS_OFFL_SIR_NOPM_2_20210511T125601_20210511T125843_C001 CS_OFFL_SIR_NOPM_2_20210511T125601_20210511T125843	CS_OFFL_SIR_NOPM_2_20210511T110817_20210511T110926_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality CS_OFFL_SIR_NOPM_2_20210511T120636_20210511T121004_C001 CS_OFFL_SIR_NOPM_2_20210511T121200_20210511T122726_C001 CS_OFFL_SIR_NOPM_2_20210511T121200_20210511T122726_C001 CS_OFFL_SIR_NOPM_2_20210511T122929_20210511T123851_C001 CS_OFFL_SIR_NOPM_2_20210511T122929_20210511T123851_C001 CS_OFFL_SIR_NOPM_2_20210511T122929_20210511T123851_C001 CS_OFFL_SIR_NOPM_2_20210511T125701_20210511T123843_C001 CS_OFFL_SIR_NOPM_2_20210511T125701_20210511T125843_C001 CS_OFFL_SIR_NOPM_2_20210511T125701_20210511T125843_C001 CS_OFFL_SIR_NOPM_2_20210511T125701_20210511T125843_C001 CS_OFFL_SIR_NOPM_2_20210511T125701_20210511T125843_C001 CS_OFFL_SIR_NOPM_2_20210511T125701_20210511T125843_C001 CCOG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210511T125701_20210511T125843_C001 CCOG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20210511T112146_20210511T114037_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20210511T120036_20210511T121004_C001 Backscatter Quality CS_OFFL_SIR_NOPM_2_20210511T121200_20210511T122726_C001 CS_OFFL_SIR_NOPM_2_20210511T122929_20210511T123851_C001 CS_OFFL_SIR_NOPM_2_20210511T122929_20210511T123851_C001 Backscatter Quality Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210511T125701_20210511T125843_C001 CS_OFFL_SIR_NOPM_2_20210511T125701_20210511T125843_C001 CS_OFFL_SIR_NOPM_2_20210511T125701_20210511T125843_C001 CS_OFFL_SIR_NOPM_2_20210511T125701_20210511T125843_C001	CS_OFFL_SIR_NOPM_2_20210511T114108_20210511T115410_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210511T122706_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20210511T120636_20210511T121004_C001		
CS_OFFL_SIR_NOPM_2_20210511T122929_20210511T123851_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range	CS_OFFL_SIR_NOPM_2_20210511T121200_20210511T122726_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
U.S. OFFI SIR NOPM 2 202105111125701 202105111125843 C001	CS_OFFL_SIR_NOPM_2_20210511T122929_20210511T123851_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20210511T125701_20210511T125843_C001	_	

CS_OFFL_SIR_NOPM_2_20210511T130117_20210511T130336_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T130540_20210511T131810_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T134129_20210511T134426_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T134434_20210511T134906_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T135141_20210511T140556_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T144428_20210511T145017_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T145302_20210511T151638_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T151938_20210511T152806_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T153115_20210511T155617_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T162946_20210511T165527_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T170151_20210511T170608_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T171006_20210511T173659_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T173701_20210511T173920_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T180225_20210511T183424_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T184104_20210511T184649_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T184831_20210511T185429_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T192449_20210511T192504_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T194005_20210511T201339_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T202009_20210511T202521_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T202824_20210511T204647_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T211911_20210511T214721_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T214732_20210511T215225_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T215811_20210511T220010_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T220017_20210511T220431_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T220814_20210511T223400_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T224543_20210511T224649_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPM_2_20210511T225843_20210511T230113_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T230205_20210511T231043_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T231428_20210511T231643_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T231646_20210511T232354_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T232527_20210511T233152_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T233349_20210511T233910_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T233929_20210511T234139_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210511T235021_20210512T000037_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T044455_20210511T044609_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T145139_20210511T145302_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T190732_20210511T190911_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T224332_20210511T224543_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T030205_20210511T030257_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T092748_20210511T092805_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T160911_20210511T161009_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T173920_20210511T174008_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T184803_20210511T184831_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T220538_20210511T220814_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

- > Ocean Altimeter Range, SSHA, SWH and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over sea ice.
- > OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20210511T002248_20210511T002427_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T003144_20210511T003352_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T011138_20210511T011402_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T011532_20210511T011748_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T013310_20210511T013507_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CO - SER YORK 2 AZISOT DESCRIPTION OF CONTROL OF CONTRO	CS_OFFL_SIR_NOPN_2_20210511T021907_20210511T022053_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Co. OFT. SR NOW. 2.52004*** TESTING ST 0.000	CS_OFFL_SIR_NOPN_2_20210511T025210_20210511T025615_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Compared to Comp	CS_OFFL_SIR_NOPN_2_20210511T030137_20210511T030204_C001		, ,
CS OFF. 84 VCPN 2 201001-100033 0000011105030 DDC1 CS OFF. 85 VCPN 2 201001-100033 0000011105030 DDC1 CS OFF. 86 VCPN 2 201001-100033 00000111105030 DDC1 CS OFF. 86 VCPN 2 201001-100033 00000111105030 DDC1 CS OFF. 86 VCPN	CS_OFFL_SIR_NOPN_2_20210511T031113_20210511T031150_C001		
CS_CFFL_SR_NOPL2_2GC16HT05592_001391190193_0001 CS_CFFL_SR_NOPL2_2GC16HT05592_001391190193_0001 CS_CFFL_SR_NOPL2_2GC16HT05593_0013911902193_0001 CS_CFFL_SR_NOPL2_2GC16HT05505_0013911902193_0001 CS_CFFL_SR_NOPL2_2GC16HT05505_0013911902193_0001 CS_CFFL_SR_NOPL2_2GC16HT05505_0013911902193_0001 CS_CFFL_SR_NOPL2_2GC16HT05505_0013911901932_0001 CS_CFFL_SR_NOPL2_2GC16HT05505_0013911901933_0001 CS_CFFL_SR_NOPL2_2GC16HT05505_0013911901933_0001 CS_CFFL_SR_NOPL2_2GC16HT05505_0013911901933_0001 CS_CFFL_SR_NOPL2_2GC16HT05505_0013911901933_0001 CS_CFFL_SR_NOPL2_2GC16HT105505_0013911901933_0001 CS_CFFL_SR_NOPL2_2GC16HT105505_00139111901932_0001 CS_CFFL_SR_NOPL2_2GC16HT105505_00139111901932_0001 CS_CFFL_SR_NOPL2_2GC16HT105505_00139111901932_0001 CS_CFFL_SR_NOPL2_2GC16HT105505_00139111901932_0001 CS_CFFL_SR_NOPL2_2GC16HT105505_00139111901932_0001 CS_CFFL_SR_NOPL2_2GC16HT105505_00139111901932_0001 CS_CFFL_SR_NOPL2_2GC16HT105505_00139111901932_0001 CS_CFFL_SR_NOPL2_2GC16HT105505_00139111901932_0001 CS_CFFL_SR_NOPL2_2GC16HT105505_00139111901932_0001 CS_CFFL_SR_NOPL2_2GC16HT10550	CS_OFFL_SIR_NOPN_2_20210511T031234_20210511T031338_C001	_	
Description (1997) 2. 2021 (611170 2219 2. 2021 (61170 2219 2. 2021 (61170 2219 2. 2021 (61170 2219 2. 2021 (61170 2219 2. 2021 (61170 2219 2. 2021 (61170 2219 2. 2021 (61170 2219 2. 2021 (61170 2219 2. 2021 (61170 2219 2. 2021 (61170 2219 2. 2021 (61170 2219 2. 2021 (61170 2219 2. 2021 (61170 2219 2. 2021 (61170 2219 2. 2	CS_OFFL_SIR_NOPN_2_20210511T035131_20210511T035332_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCC Establish College (1981) CS_OFTL_SIR_NOFTL_2001091 T00305_002 10511705322_000 CS_OFTL_SIR_NOFTL_2001091 T00305_002 10511705322_000 CS_OFTL_SIR_NOFTL_2001091 T00305_002 10511705115_000 CS_OFTL_SIR_NOFTL_2001091 T00305_002 10511705115_000 Almeter Range and Stablescent Questly FLMS, OCCO Almeter Range and Stablescent Questly FLMS, OCCO Almeter Range and Stablescent Questly and Debatescent Questly FLMS, OCCO Almeter Range and Stablescent Questly and Debatescent Questly and Deb	CS_OFFL_SIR_NOPN_2_20210511T052033_20210511T052118_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SQ OFFL SIR NOPPL 2.0270511105055, 20270511105152 (2010) CS_OFFL SIR NOPPL 2.0270511105055, 20270511105153 (2010) CS_OFFL SIR NOPPL 2.0270511105055, 202705111051050 (2010) CS_OFFL SIR NOPPL 2.02705111051050 (2010) CS_OFFL SIR NOPPL 2.02705111105050 (2010) CS_OFFL SIR NOPPL	CS_OFFL_SIR_NOPN_2_20210511T052118_20210511T052209_C001	OCOG Backscatter Quality	
CS_OFFL_SIR_NOPN_2_20210511T00690_2021051T019192_CO1 CS_OFFL_SIR_NOPN_2_2021051T019692_CO1051T019192_CO1 CS_OFFL_SIR_NOPN_2_2021051T019692_CO1051T019692_C	CS_OFFL_SIR_NOPN_2_20210511T053055_20210511T053222_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210511702905_202*05*1712904_C001 CS_OFFL_SIR_NOPN_2_202105117129050_202*05*1712904_C001 CS_OFFL_SIR_NOPN_2_202105117129002_202*05*1712904_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*1712904_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*1712904_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*1712904_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*1712904_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*1712904_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*1712904_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*1712904_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*1712904_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*1712904_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*1712905_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*1712905_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*1712905_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*1712905_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*17112905_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*17112905_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*17112905_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*17112905_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*17112905_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*17112905_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*17112905_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*17112905_C001 CS_OFFL_SIR_NOPN_2_202105171729002_202*05*17112905_C001 CS_OFFL_SIR_NOPN_2_202	CS_OFFL_SIR_NOPN_2_20210511T060758_20210511T061152_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRN. CS OFFL SIR NOPN 2 20210511706720 20210511706930 C001 CS OFFL SIR NOPN 2 202105117102530 20210511706950 C001 CS OFFL SIR NOPN 2 202105117102530 20210511706950 C001 CS OFFL SIR NOPN 2 202105117102530 20210511710970 C001 CS OFFL SIR NOPN 2 202105117102530 20210511710970 C001 CS OFFL SIR NOPN 2 202105117102530 20210511711977 C001 CS OFFL SIR NOPN 2 2021051171102530 20210511711977 C001 CS OFFL SIR NOPN 2 202105117102530 20210511711037 C001 CS OFFL SIR NOPN 2 202105117110200 20210511711037 C001 CS OFFL SIR NOPN 2 202105117110200 202105117110304 C001 CS OFFL SIR NOPN 2 20210511712000 202105117120304 C001 CS OFFL SIR NOPN 2 20210511713000 20210511712000 C000 Alternate Range Quality PLRN, CO00 Backscaller Quality CS OFFL SIR NOPN 2 20210511713000 20210511712000 C000 Alternate Range Quality PLRN, CO00 Backscaller Quality CS OFFL SIR NOPN 2 20210511713000 20210511712000 C000 Alternate Range Quality PLRN, CO00 Backscaller Quality CS OFFL SIR NOPN 2 20210511713000 20210511713000 C000 Backscaller Quality CS OFFL SIR NOPN 2 20210511713000 20210511713000 C001 CO00 Alternate Range Quality PLRN, CO00 Backscaller Quality CS OFFL SIR NOPN 2 20210511713000 20210511713000 C001 CCO0 Alternate Range Quality PLRN, CO00 Backscaller Quality CCO0 Alternate Range Quality PLRN, CO00 Backscaller Quality CCO0 Backscaller Quality CCO0	CS_OFFL_SIR_NOPN_2_20210511T070957_20210511T071111_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	
CS OFFL SIR NOPN 2 20210511T105553 20210511T105111 C001 CS OFFL SIR NOPN 2 20210511T105553 20210511T103111 C001 CS OFFL SIR NOPN 2 2021051T1105553 20210511T103111 C001 CS OFFL SIR NOPN 2 2021051T1105553 2021051T110300 C001051 C00105	CS_OFFL_SIR_NOPN_2_20210511T074738_20210511T075052_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS OFFL_SIR_NOPN_2_20210511T102583_20210511T103111_C001 CS_OFFL_SIR_NOPN_2_20210511T102583_20210511T103111_C001 CS_OFFL_SIR_NOPN_2_20210511T111554_2021051T111957_C001 CS_OFFL_SIR_NOPN_2_20210511T111654_2021051T111957_C001 CS_OFFL_SIR_NOPN_2_20210511T111054_2021051T1110311_C001 CS_OFFL_SIR_NOPN_2_2021051T1120002_20210511T120004_C001 CS_OFFL_SIR_NOPN_2_2021051T1120002_2021051T1120004_C001 CS_OFFL_SIR_NOPN_2_2021051T1120002_2021051T120005_C001 CS_OFFL_SIR_NOPN_2_2021051T1120002_2021051T120005_C001 CS_OFFL_SIR_NOPN_2_2021051T1120002_2021051T120005_C001 CS_OFFL_SIR_NOPN_2_2021051T1120002_2021051T120005_C001 CS_OFFL_SIR_NOPN_2_2021051T1120002_2021051T120005_C001 CS_OFFL_SIR_NOPN_2_2021051T1120002_2021051T120005_C001 CS_OFFL_SIR_NOPN_2_2021051T1120005_2021051T120005_C001 CS_OFFL_SIR_NOPN_2_2021051T1120005_2021051T120005_C001 CS_OFFL_SIR_NOPN_2_2021051T1120005_2021051T120005_C001 CS_OFFL_SIR_NOPN_2_2021051T1120005_2021051T120005_C001 CS_OFFL_SIR_NOPN_2_2021051T1120005_2021051T120005_C001 CS_OFFL_SIR_NOPN_2_2021051T113005_2021051T112005_C001 CS_OFFL_SIR_NOPN_2_2021051T113005_2021051T112005_C001 CS_OFFL_SIR_NOPN_2_2021051T113005_2021051T1132215_C001 CS_OFFL_SIR_NOPN_2_2021051T113005_2021051T1132215_C001 CCS_OFFL_SIR_NOPN_2_2021051T113005_2021051T1132215_C001 CCS_OFFL_SIR_NOPN_2_2021051T113005_2021051T1132215_C001 CCS_OFFL_SIR_NOPN_2_2021051T113005_2021051T1132215_C001 CCS_OFFL_SIR_NOPN_2_2021051T1133218_2021051T1132215_C001 CCS_OFFL_SIR_NOPN_2_2021051T1133218_2021051T1132215_C001 CCS_OFFL_SIR_NOPN_2_2021051T1133331_2021051T1132215_C001 CCS_OFFL_SIR_NOPN_2_2021051T1133332_2021051T1134120_C001 CCS_OFFL_SIR_NOPN_2_2021051T1133332_2021051T134444_C001 CCS_OFFL_SIR_NOPN_2_2021051T1133332_2021051T134444_C001 CCS_OFFL_SIR_NOPN_2_2021051T133332_2021051T134444_C001 CCS_OFFL_SIR_NOPN_2_2021051T133332_2021051T134444_C001 CCS_OFFL_SIR_NOPN_2_2021051T133444_C001 CCS_OFFL_SIR_NOPN_2_2021051T133444_C001 CCS_OFFL_SIR_NOPN_2_2021051T1734444_C001 CCS_OFFL_SIR_NOPN_2_2021051T133444_C001 CCS_OFFL_SIR_NOPN	CS_OFFL_SIR_NOPN_2_20210511T081720_20210511T081904_C001		
OS_OFFL_SIR_NOPN_2_20210511T102659_20210511T103111_C001 and Backscatter Quality PLRM. CS_OFFL_SIR_NOPN_2_20210511T111654_20210511T111957_C001 OCOG Altimeter Range and Backscatter Quality PLRM. CS_OFFL_SIR_NOPN_2_20210511T1120030_20210511T111957_C001 OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality PLRM. OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T120030_20210511T120044_C001 OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality PLRM. OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T120052_20210511T120633_C001 OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T12105_20210511T12137_C001 OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality PLRM. OCOG Back	CS_OFFL_SIR_NOPN_2_20210511T095610_20210511T095653_C001		
CS_OFFL_SIR_NOPN_2_20210511712030_202105117120304_C001 CS_OFFL_SIR_NOPN_2_202105117120302_202105117120304_C001 CS_OFFL_SIR_NOPN_2_202105117120502_202105117120635_C001 CS_OFFL_SIR_NOPN_2_202105117120502_202105117120635_C001 CS_OFFL_SIR_NOPN_2_202105117120502_202105117120635_C001 CS_OFFL_SIR_NOPN_2_202105117120502_202105117121137_C001 CS_OFFL_SIR_NOPN_2_202105117121005_202105117121137_C001 CS_OFFL_SIR_NOPN_2_202105117123652_202105117124225_C001 CS_OFFL_SIR_NOPN_2_202105117123652_202105117124225_C001 CS_OFFL_SIR_NOPN_2_202105117133652_202105117132215_C001 CS_OFFL_SIR_NOPN_2_202105117132218_202105117132215_C001 CS_OFFL_SIR_NOPN_2_202105117132218_202105117132250_C001 CS_OFFL_SIR_NOPN_2_202105117133331_202105117132250_C001 CS_OFFL_SIR_NOPN_2_202105117133331_202105117134129_C001 CS_OFFL_SIR_NOPN_2_202105117133331_202105117134129_C001 CS_OFFL_SIR_NOPN_2_202105117133332_202105117134129_C001 CS_OFFL_SIR_NOPN_2_202105117133332_202105117134427_C001 CS_OFFL_SIR_NOPN_2_202105117133332_202105117134429_C001 CS_OFFL_SIR_NOPN_2_202105117133332_202105117134429_C001 CS_OFFL_SIR_NOPN_2_202105117134427_202105117134434_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_202105117134434_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_202105117134434_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_202105117134434_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_202105117134434_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_202105117134434_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_202105117134434_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_202105117134344_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_202105117134434_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_202105117134434_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_202105117134344_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_202105117134434_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_202105117134434_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_202105117134434_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_202105117134434_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_202105117134434_C001 CCS_OFFL_SIR_NOPN_2_202105117134427_2	CS_OFFL_SIR_NOPN_2_20210511T102553_20210511T103111_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210511T12030_20210511T12030_COOT CS_OFFL_SIR_NOPN_2_20210511T120502_20210511T120635_CO01 CS_OFFL_SIR_NOPN_2_20210511T120502_20210511T120635_CO01 CS_OFFL_SIR_NOPN_2_20210511T120502_20210511T12137_CO01 Altimeter Range and Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Ratimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T123652_20210511T124225_CO01 CS_OFFL_SIR_NOPN_2_20210511T133652_20210511T132215_CO01 CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T131810_20210511T132215_CO01 CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T132218_20210511T132250_CO01 CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T133427_C001 CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags ha	CS_OFFL_SIR_NOPN_2_20210511T111654_20210511T111957_C001	· · · · · · · · · · · · · · · · · · ·	
CS_OFFL_SIR_NOPN_2_20210511T12005_20210511T124137_C001 CS_OFFL_SIR_NOPN_2_20210511T121005_20210511T124137_C001 CS_OFFL_SIR_NOPN_2_20210511T123852_20210511T124225_C001 CS_OFFL_SIR_NOPN_2_20210511T123852_20210511T124225_C001 CS_OFFL_SIR_NOPN_2_20210511T133852_20210511T124225_C001 CS_OFFL_SIR_NOPN_2_20210511T132215_C001 CS_OFFL_SIR_NOPN_2_20210511T132215_C001 CS_OFFL_SIR_NOPN_2_20210511T132218_20210511T132250_C001 CS_OFFL_SIR_NOPN_2_20210511T133231_20210511T132250_C001 CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T133427_C001 CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T133427_C001 CS_OFFL_SIR_NOPN_2_20210511T133332_20210511T134129_C001 CS_OFFL_SIR_NOPN_2_20210511T133332_20210511T134129_C001 CS_OFFL_SIR_NOPN_2_20210511T133332_20210511T134428_C001 CS_OFFL_SIR_NOPN_2_20210511T133532_20210511T134428_C001 CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 CCG_Altimeter Range_Quality PLRM_ CCG_Backscatter Quality The OCOG_Range and Backscatter Quality Flags have been set for one or more records. The OCOG_Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T133332_20210511T134429_C001 CCG_Altimeter Range_Quality PLRM_ CCG_Backscatter Quality The OCOG_Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 CCG_Altimeter Range_Quality PLRM_ CCG_Backscatter Quality The OCOG_Range and Backscatter Quality Flags have been set for one or more records. CCG_Altimeter Range_Quality PLRM_ CCG_Backscatter Quality The OCOG_Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210511T120030_20210511T120304_C001		
and Backscatter Quality PLRM. COG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T123852_20210511T124225_C001 CS_OFFL_SIR_NOPN_2_20210511T13810_20210511T132215_C001 CS_OFFL_SIR_NOPN_2_20210511T131810_20210511T132215_C001 CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T132250_C001 CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T132250_C001 CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T132250_C001 CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T133427_C001 CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T133427_C001 CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T133427_C001 CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T134429_C001 CCG_Altimeter Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T133427_C001 CCG_Altimeter Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T133532_20210511T134129_C001 CCG_Altimeter Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 CCG_Altimeter Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 CCG_Altimeter Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210511T120502_20210511T120635_C001		
CS_OFFL_SIR_NOPN_2_20210511T132215_C001 CS_OFFL_SIR_NOPN_2_20210511T131810_20210511T132215_C001 CS_OFFL_SIR_NOPN_2_20210511T132218_20210511T132250_C001 CS_OFFL_SIR_NOPN_2_20210511T132218_20210511T132250_C001 CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T1332250_C001 CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T133427_C001 CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T133427_C001 CS_OFFL_SIR_NOPN_2_20210511T133332_20210511T133427_C001 CS_OFFL_SIR_NOPN_2_20210511T133532_20210511T134129_C001 CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T133532_20210511T134434_C001 CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 CCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 CCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210511T121005_20210511T121137_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210511T132218_20210511T132250_C001 CS_OFFL_SIR_NOPN_2_20210511T132218_20210511T132250_C001 CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T133427_C001 CS_OFFL_SIR_NOPN_2_20210511T133532_20210511T134129_C001 CS_OFFL_SIR_NOPN_2_20210511T133532_20210511T134427_C001 CS_OFFL_SIR_NOPN_2_20210511T133532_20210511T134427_C001 CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 CCG_G Altimeter Range Quality PLRM, OCCG_G Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 CCG_G Altimeter Range Quality PLRM, OCCG_G Range and Backscatter Quality Flags have been set for one or more records. CCG_G Altimeter Range Quality PLRM, The OCCG_G Range and Backscatter Quality Flags have been set for one or more records. CCG_G Altimeter Range Quality PLRM, The OCCG_G Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210511T123852_20210511T124225_C001		, ,
CS_OFFL_SIR_NOPN_2_20210511T132218_20210511T133427_C001 OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T133532_20210511T134129_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T133532_20210511T134429_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210511T131810_20210511T132215_C001		, ,
CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T133427_C001 OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210511T132218_20210511T132250_C001		
CS_OFFL_SIR_NOPN_2_20210511T134535_2_20210511T134129_C001 OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or occurrence of the ocog Range and Backscatter Quality Flags have been set for one or occurrence of the ocog Range and Backscatter Quality Flags have been set for one or occurrence of the ocog Range and Backscatter Quality Flags have been set for one or occurrence of the ocog Range and Backscatter Quality Flags have been set for one or occurrence of the ocog Range and Backscatter Quality Flags have been set for one or occurrence of the ocog Range and Backscatter Quality Flags have been set for one or occurrence of the ocog Range and Backscatter Quality Flags have been set for one or occurrence of the ocog Range and Backscatter Quality Flags have been set for one or occurrence of the ocog Range and Backscatter Quality Flags have been set for one or occurrence of the ocog Range and Backscatter Quality Flags have been set for one or occurrence of the ocog Range and Backscatter Quality Flags have been set for one or occurrence of the ocog Range and Backscatter Quality Flags have been set for one occurrence of the ocog Range and Backscatter Quality Flags have been set for one occurrence of the ocog Range and Backscatter Quality Flags have been set for one occurrence of the ocog Range and Backscatter Quality Flags have been set for one occurrence occurrence of the ocog Range and Backscatter Quality Flags have been set for one occurrence occur	CS_OFFL_SIR_NOPN_2_20210511T133331_20210511T133427_C001		
CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001 OCOG Backscatter Quality More records. OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_NOPN_2_20210511T133532_20210511T134129_C001		
US OFFI SIK NOPN / 20/105111.5490/ 20/105111.55050 COU	CS_OFFL_SIR_NOPN_2_20210511T134427_20210511T134434_C001		
	CS_OFFL_SIR_NOPN_2_20210511T134907_20210511T135050_C001		

CS_OFFL_SIR_NOPN_2_20210511T141559_20210511T141746_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T143801_20210511T143949_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T144008_20210511T144039_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T151747_20210511T151938_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T152807_20210511T153004_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T155617_20210511T155955_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T161451_20210511T161928_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T165727_20210511T165905_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T170608_20210511T170859_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T183718_20210511T184104_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T184649_20210511T184803_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T190341_20210511T190715_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T192505_20210511T192553_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T193823_20210511T194004_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T201653_20210511T202009_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T204648_20210511T204949_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T215409_20210511T215811_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T220432_20210511T220538_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210511T224332_20210511T224543_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T002937_20210511T002943_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T003353_20210511T003925_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T011012_20210511T011137_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T012150_20210511T012432_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T024855_20210511T025153_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T025615_20210511T030136_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T030205_20210511T030257_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPR_2_20210511T053222_20210511T053427_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T061959_20210511T062431_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T063014_20210511T063054_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T080922_20210511T081243_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T083849_20210511T084012_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T092719_20210511T092742_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T095008_20210511T095127_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T114038_20210511T114108_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T115411_20210511T120030_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T122727_20210511T122929_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T130336_20210511T130539_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T133124_20210511T133201_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T135051_20210511T135141_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T140557_20210511T141116_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T141116_20210511T141359_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T141402_20210511T141447_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T144039_20210511T144305_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T151639_20210511T151747_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T161035_20210511T161450_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T165527_20210511T165727_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T174450_20210511T175535_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T185430_20210511T185933_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T192414_20210511T192448_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T192740_20210511T193619_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T193743_20210511T193822_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210511T210527_20210511T210750_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_NOPR_2_20210511T210838_20210511T211911_C001 Altimeter Range and Backscatter Quality set for one or more records. PLRM Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_NOPR_2_20210511T215225_20210511T215409_C001 Altimeter Range and Backscatter Quality set for one or more records. PLRM Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_NOPR_2_20210511T224807_20210511T225532_C001 Altimeter Range and Backscatter Quality set for one or more records. PLRM Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_NOPR_2_20210511T234323_20210511T235020_C001 Altimeter Range and Backscatter Quality set for one or more records. PLRM

L2 Quality Flags (1 Hz & 1Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below.

> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected.

Number of products with errors: 181

5.7 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products falling at ocean/ land boundaries, but this is expected.

Number of products with errors: 73

L2 Retracking Flags (20Hz, PLRM)

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products NOPR and NOPN products over sea ice, but this is to be expected.

Number of products with errors: 126

7. NOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_NOPM1B	158	158	4	154	0
SIR_NOPR1B	98	98	0	98	0
SIR_NOPN1B	96	96	3	93	0
SIR_NOPM_2	158	158	101	57	0
SIR_NOPR_2	98	98	22	73	3
SIR_NOPN_2	96	96	37	59	0

7.1 QCC Errors

SIR_NOPR_2

RLOBOPNCDF

RL

Number of QCC reports with errors:

RL

RangeLongitudeOrBlankOP_7NetCDF

RangeLatitude_7

RangeLongitude_7

Product Type RLOBOPNCDF

6

RL

RLOBOPNCDF

Total number of occurrences of each error

Test Description Key:	Test Description Key:				
Abbreviation	Test name	Details			
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7 - NetCDF			

Latitude should be between -90E7 and 90E7

Longitude should be between -180E7 and 180E7

Longitude should be between -180E7 and 180E7 - NetCDF

7.2 QCC Warnings

Number of QCC reports with warnings

1787

Total number of occurrences of each warning

			i Otal II	idiliber of occurrences	or cacif warring		
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_NOPM1B	154	0	0	0	0	0	0
SIR_NOPM_2	0	0	46	50	0	42	0
SIR_NOPN1B	92	0	0	0	0	0	0
SIR_NOPN_2	0	0	13	34	3	30	29
SIR_NOPR1B	97	0	0	0	0	0	0
SIR NOPR 2	0	3	40	49	0	32	27

Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	39	36	0	0	0	0	31
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	24	0	0	25	0	36	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	12	0	48	0	55	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	0	5	27	0	5	35
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	28	20	44	52	29	35
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	46	0	0	61	38	11	45

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-	-
SIR_NOPM1B	0	0	0	0	0		
SIR_NOPM_2	0	3	0	0	0		
SIR_NOPN1B	0	0	0	45	0		
SIR_NOPN_2	33	16	1	0	0		
SIR_NOPR1B	0	0	0	98	5		

SIR_NOPR_2	50 2 6	0 0
Test Description Key:		
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports: